

No.

9600234



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Snalof Weibull A B

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMERICAL GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

PEA, FIELD

'Majoret'

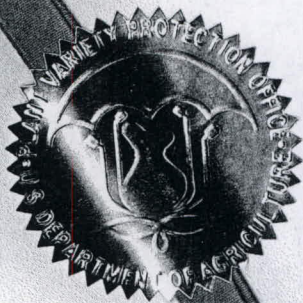
In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twenty-seventh day of October, in the year of our Lord two thousand.

*Car. H. H. H.*

Secretary of Agriculture

Attest:

*R. A. H.*  
Acting Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service





U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act 1974 (5 U.S.C. 552a).

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

## APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Svalöf Weibull AB		SV F 35121	MAJORET
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)		5. TELEPHONE (include area code)	<b>FOR OFFICIAL USE ONLY</b> PVPO NUMBER 9600234 FILING AND EXAMINATION FEE: \$ 2450.00 DATE 4-19-96 CERTIFICATION FEE: \$ 300 DATE 9/12/00
S-268 81 Svalöv, SWEDEN		705-324-3293	
6. FAX (include area code)			
705-324-2550			
7. GENUS AND SPECIES NAME	8. FAMILY NAME (Botanical)		
Pisum sativum	Leguminosae		
9. CROP KIND NAME (Common name)			
Field Pea			
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) (Common name)			
Limited Company			
11. IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION	
Sweden		1992	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS		14. TELEPHONE (include area code)	
per fax of 12/14/99 <del>Bonis &amp; Company</del> <del>P.O. Box 217</del> <del>Lindsay, Ontario, Canada K9V 5Z4</del> SVALÖF WEIBULL LTD. 2-411 Downey Road Saskatoon SK CANADA S7N 4L8		306-477-5230 705-324-0544	
		15. FAX (include area code)	
		705-324-2550 306-477-5239	
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)			
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of the Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Applicant's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in a public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to PVPO)			
17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act)?			
<input checked="" type="checkbox"/> YES (If "yes," answer items 18 and 19 below) <input type="checkbox"/> NO (If "no," go to item 20)			
18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?		19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?	
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED	
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?			
<input checked="" type="checkbox"/> YES (If "yes," give names of countries and dates) <input type="checkbox"/> NO			
CANADA April 1994			
21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.			
The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.			
Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF APPLICANT (Owner(s))		SIGNATURE OF APPLICANT (Owner(s))	
Howard K. Love			
NAME (Please print or type)		NAME (Please print or type)	
Howard K. Love			
CAPACITY OR TITLE	DATE	CAPACITY OR TITLE	DATE
Canadian Research Director	Apr. 15/96		Apr. 15/96



## INSTRUCTIONS

**GENERAL:** To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed Exhibits A, B, C, E; (3) at least 2,500 viable untreated seeds, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in a public repository prior to issuance of a certificate; (4) check drawn on a U.S. bank for \$2,450 (\$300 filing fee and \$2,150 examination fee), payable to "Treasurer of the United States" (*See Section 97.175 of the Regulations and Rules of Practice.*) Partial applications will be held in the PVPO for not more than 30 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Blvd., Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$300 for issuance of the Certificate.

Plant Variety Protection Office  
Telephone: (301) 504-5518

### ITEM

- 16a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified.
- 16b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
- (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences;
- (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 16c. Exhibit C forms are available from the PVPO for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 16d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 16e. Section 52(4) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. The applicant may be the actual breeder, the employee of the breeder, the owner through purchase or inheritance, etc.
17. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant may NOT reverse this affirmative decision after the variety has been sold and so labelled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (*See P.L. 103-349 for additional information.*)
20. See Sections 41, 42, and 43 of the Act and Section 97.175 of the regulations for eligibility requirements.

**NOTES:** It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment is specified in Section 97.175 of the regulations. (*See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of Regulations and Rules of Practice.*)

To avoid conflict with other variety names in use, the applicant should check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Washington, DC 20260; and to the Office of Management and Budget, Paperwork Reduction Project (OMB No. 0581-0055), Washington, DC 20503.



Variety: Majoret (SV F 35121) Pea

**EXHIBIT A**

**Revised November 5, 1997**

**Origin and Breeding:**

The variety was developed at Svalöf Weibull AB, Sweden. This semi-leafless variety originates from a cross of Fjord x Bohatyr. The original cross was done in 1984. The breeding method was a pedigree method and the variety originates from a single plant selection in F<sub>4</sub>. Breeder Seed was bulk in the F<sub>9</sub> generation. Selection criteria were seed yield, semi-leafed trait, stalk stiffness, retention of green colour, and early maturity.

**Statement of Uniformity and Stability:**

**Variants:**

Seed fields which have been rogued, inspected and determined to be uniformly semi-leafless have produced crops in subsequent years with a very low frequency of plants bearing true leaves (see description attached). These true leafed plants are below the canopy height of Majoret. These may have been overlooked due to the degree of difficulty in detection or they may have arisen due to a reversion of the semi-leafless trait to a leafed type, as has been noted in several other semi-leafless varieties. The true leafed type plants which are found are similar in appearance and description. This leafed type plant does not express strongly early in the growing season, making traditional roguing techniques for leafed peas out of semi-leafless peas less effective than usual.

Count of Leafed Acceptable Variant per 10,000 of Crop Plants:

Select Plots	2.5	or	5 per 20,000 of crop plants
Foundation	10		
Registered	10		
Certified	20		

**Offtypes:** None observed.

**Evidence of Uniformity and Stability:**

Majoret has been observed to be uniform and stable for at least three (3) generations.

**Svalof Weibull Seed Ltd.**

P.O. Box 217  
208 St. David St.  
Lindsay, Ontario  
CANADA K9V 5Z4

Tel: (705) 324-3293  
Fax: (705) 324-2550  
E-mail: hlove@swseed.ca  
www.swseed.ca



**Variety: Majoret (SV F 35121) Pea**

**EXHIBIT B**

**Revised November 5, 1997**

**Statement of Distinctness:**

Of varieties known to us, Majoret is most similar to the variety, "Radley". Majoret can be distinguished from Radley as evidenced by the attached statistical comparisons with respect to the following three traits which are stable traits from generation to generation. Majoret has larger seeds than Radley, and shorter, narrower stipules.

Characteristic (see ANOVA tables)	Year	Reps	Majoret (SV F 35121)	Range	Radley	Range
Thousand Grain Weight (grams)	1996	5	271.56	(256 - 289)	225.38	(223 - 230)
	1997	10	261.97	(247 - 275)	194.85	(184 - 205)
Stipule Length (cm)	1996	10	4.03	(3.2 - 4.9)	5.39	(4.4 - 6.3)
	1997	20	5.00	(4.4 - 6.1)	5.23	(4.3 - 6.6)
Stipule Width (cm)	1996	10	1.95	(1.6 - 2.4)	3.13	(2.4 - 3.9)
	1997	20	2.29	(1.7 - 3.0)	2.52	(1.9 - 3.3)

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AGROBASE/4 ANALYSIS OF VARIANCE  
 PROC ACB  
 11/10/97 MAJORET + RADLEY 96/97 TGW ANOVA TABLE

Dependent variable: TGW

Source	df	SS	MS	F-value	Pr > F
Total	29	32451.370			
ENTRY	1	27126.147	27126.147	144.69	0.0000
BLOC	4	825.688	206.422	1.10	0.3793
Residual	24	4499.535	187.481		

Grand mean = 235.097 R-squared = 0.8613 C.V. = 5.82%

LSD for ENTRY = 8.5540 S.E.D. = 4.9997

t (1-sided  $\alpha=0.050$ , 24 df) = 1.7109 MSE = 187.48061

ENTRY

Averages

Level --- Y --- Rank

1	265.17	1 MAJORET
2	205.03	2 RADLEY

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AGROBASE/4 ANALYSIS OF VARIANCE  
 PROC ACB  
 11/10/97 MAJORET + RADLEY 1997 TGW ANOVA TABLE

Dependent variable: TGW

Source	df	SS	MS	F-value	Pr > F
Total	19	23589.358			
ENTRY	1	22525.472	22525.472	497.30	0.0000
BLOC	4	429.743	107.436	2.37	0.1018
Residual	14	634.143	45.296		

Grand mean = 228.410 R-squared = 0.9731 C.V. = 2.95%

LSD for ENTRY = 5.3013 S.E.D. = 3.0098

t (1-sided  $\alpha=0.050$ , 14 df) = 1.7613 MSE = 45.29593

ENTRY

Averages

Level --- Y --- Rank

1	261.97	1 MAJORET
2	194.85	2 RADLEY

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AGROBASE/4 ANALYSIS OF VARIANCE  
 PROC ACB  
 11/10/97 MAJORET + RADLEY 1996 TGW ANOVA TABLE

Dependent variable: TGW

Source	df	SS	MS	F-value	Pr > F
Total	9	6179.321			
ENTRY	1	5331.481	5331.481	66.09	0.0021
BLOC	4	525.136	131.284	1.63	0.3237
Residual	4	322.704	80.676		

Grand mean = 248.470 R-squared = 0.9478 C.V. = 3.61%

LSD for ENTRY = 12.1104 S.E.D. = 5.6807

t (1-sided  $\alpha=0.050$ , 4 df) = 2.1319 MSE = 80.67600

#### ENTRY

##### Averages

Level --- Y --- Rank

1	271.56	1 MAJORET
2	225.38	2 RADLEY

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AGROBASE/4                      A N A L Y S I S   O F   V A R I A N C E  
 PROC ACB  
 11/06/97                      MAJORET + RADLEY 1996 STIPULE WIDTH (CM) ANOVA TABLE

Dependent variable: STIP\_WIDTH

Source	df	SS	MS	F-value	Pr > F
Total	19	9.788			
ENTRY	1	6.962	6.962	39.46	0.0002
BLOC	9	1.238	0.138	0.78	0.6420
Residual	9	1.588	0.176		

Grand mean = 2.540                      R-squared = 0.8378                      C.V. = 16.54%

LSD for ENTRY = 0.3444                      S.E.D. = 0.1879

t (1-sided  $\alpha=0.050$ , 9 df) = 1.8331                      MSE = 0.17644

#### ENTRY

##### Averages

Level --- Y --- Rank

2	3.13	1 RADLEY
1	1.95	2 MAJORET

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9600234

AGROBASE/4                      A N A L Y S I S   O F   V A R I A N C E  
 PROC ACB  
 11/06/97                      MAJORET + RADLEY 1997 STIPULE WIDTH (CM) ANOVA TABLE

Dependent variable: STIP\_WDTH

Source	df	SS	MS	F-value	Pr > F
-----	-----	-----	-----	-----	-----
Total	39	4.970			
ENTRY	1	0.506	0.506	4.47	0.0410
BLOC	9	1.182	0.131	1.16	0.3551
Residual	29	3.281	0.113		
-----	-----	-----	-----	-----	-----

Grand mean = 2.403                      R-squared = 0.3398                      C.V. = 14.00%

LSD for ENTRY = 0.1807                      S.E.D. = 0.1064

t (1-sided  $\alpha=0.050$ , 29 df) = 1.6991                      MSE = 0.11315

ENTRY

Averages

Level --- Y --- Rank

2	2.52	1 RADLEY
1	2.29	2 MAJORET

-----  
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AGROBASE/4

## ANALYSIS OF VARIANCE

PROC ACB

11/06/97

MAJORET + RADLEY 97/96 STIPULE WIDTH (CM) ANOVA TABLE

Dependent variable: STIP\_WIDTH

Source	df	SS	MS	F-value	Pr > F
Total	59	15.010			
ENTRY	1	4.428	4.428	24.57	0.0000
BLOC	9	1.752	0.195	1.08	0.3943
Residual	49	8.830	0.180		

Grand mean = 2.448

R-squared = 0.4117

C.V. = 17.34%

LSD for ENTRY = 0.1838

S.E.D. = 0.1096

t (1-sided  $\alpha=0.050$ , 49 df) = 1.6766 MSE = 0.18021

## ENTRY

## Averages

Level --- Y --- Rank

2	2.72	1 RADLEY
1	2.18	2 MAJORET

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AGROBASE/4                      A N A L Y S I S   O F   V A R I A N C E  
 PROC ACB  
 11/06/97                      MAJORET + RADLEY 97/96 STIPULE LENGTH (CM) ANOVA TABLE

Dependent variable: STIP\_LTH

Source	df	SS	MS	F-value	Pr > F
-----	-----	-----	-----	-----	-----
Total	59	29.902			
ENTRY	1	5.460	5.460	11.69	0.0014
BLOC	9	1.547	0.172	0.37	0.9446
Residual	49	22.895	0.467		
-----	-----	-----	-----	-----	-----

Grand mean = 4.978                      R-squared = 0.2343                      C.V. = 13.73%

LSD for ENTRY = 0.2959                      S.E.D. = 0.1765

t (1-sided  $\alpha=0.050$ , 49 df) = 1.6766                      MSE = 0.46724

ENTRY

Averages

Level --- Y --- Rank

2	5.28	1 RADLEY
1	4.68	2 MAJORET

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AGROBASE/4                      A N A L Y S I S   O F   V A R I A N C E  
 PROC ACB  
 11/06/97                      MAJORET + RADLEY 1997 STIPULE LENGTH (CM) ANOVA TABLE

Dependent variable: STIP\_LTH

Source	df	SS	MS	F-value	Pr > F
Total	39	13.004			
ENTRY	1	0.506	0.506	1.65	0.2062
BLOC	9	3.616	0.402	1.31	0.2731
Residual	29	8.881	0.306		

Grand mean = 5.113                      R-squared = 0.3170                      C.V. = 10.82%

LSD for ENTRY = 0.2973                      S.E.D. = 0.1750

t (1-sided  $\alpha=0.050$ , 29 df) = 1.6991                      MSE = 0.30625

#### ENTRY

##### Averages

Level --- Y --- Rank

2	5.23	1 RADLEY
1	5.00	2 MAJORET

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AGROBASE/4                      A N A L Y S I S   O F   V A R I A N C E  
 PROC ACB  
 11/06/97                      MAJORET + RADLEY 1996 STIPULE LENGTH (CM) ANOVA TABLE

Dependent variable: STIP\_LTH

Source	df	SS	MS	F-value	Pr > F
-----	----	-----	-----	-----	-----
Total	19	14.738			
ENTRY	1	9.248	9.248	28.58	0.0005
BLOC	9	2.578	0.286	0.89	0.5707
Residual	9	2.912	0.324		
-----	----	-----	-----	-----	-----

Grand mean = 4.710                      R-squared = 0.8024                      C.V. = 12.08%

LSD for ENTRY = 0.4663                      S.E.D. = 0.2544

t (1-sided  $\alpha=0.050$ , 9 df) = 1.8331                      MSE = 0.32356

ENTRY

Averages

Level --- Y --- Rank

2	5.39	1 RADLEY
1	4.03	2 MAJORET

-----  
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FORM APPROVED: OMB NO. 0581-0055

EXHIBIT C  
(Pcz)

UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION  
NATIONAL AGRICULTURAL LIBRARY  
BELTSVILLE, MARYLAND 20705  
OBJECTIVE DESCRIPTION OF VARIETY  
PEA (*PISUM SATIVUM*)

VARIETY NAME OR TEMPORARY  
DESIGNATION

MAJORET

FOR OFFICIAL USE ONLY

PVPO NUMBER

NAME OF APPLICANT(S)

Svalöf Weibull AB

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

S-268 81

Svalöv, SWEDEN

Place the appropriate number that describes the varietal character in the boxes below.

Place a zero in first box (e.g.,  or ) when number is either 99 or less or 9 or less.

## 1. TYPE:

1 - GARDEN

2 - FIELD

3 - EDIBLE-PODDED

## 2. MATURITY:

Node number of first bloom:

No. of days to processing

Heat Units

No. of days Earlier than

1 = ALASKA WR

2 = THOMAS LAXTON WR

3 = LITTLE MARVEL

No. of days Later than

4 = WANDO

5 = ALDERMAN WR

6 = AUSTRIAN WINTER

## 3. PLANT HEIGHT:

CM. HIGH

Cm. Shorter than

1 = ALASKA WR

2 = THOMAS LAXTON WR

3 = LITTLE MARVEL

Cm. Taller than

4 = WANDO

5 = ALDERMAN WR

6 = AUSTRIAN WINTER

## 4. VINE:

Habit: 1 = DETERMINATE 2 = INDETERMINATE

Stockiness: 1 = SLIM (Alaska) 3 = HEAVY (Alderman)  
2 = MEDIUM (Thomas Laxton WR)

Branching: 1 = NONE (Alaska) 2 = 1-2 BRANCHES (Little Marvel)

3 = MORE THAN 2 BRANCHES (Dwarf Gray Sugar)

☒

Internodes: 1 = STRAIGHT 2 = ZIG ZAG

NUMBER OF NODES

## 5. LEAFLETS: Semi-leafless, modified into tendrils

Color: 1 = LIGHT GREEN (Alaska WR) 2 = MED. GREEN (Thomas Laxton WR)

3 = DARK GREEN (Alderman)

4 = OTHER (Specify)

Wax: 1 = NONE 2 = LIGHT 3 = MEDIUM  
4 = HEAVY

1 = NOT MARBLED

2 = MARBLED (Alaska)

Number of leaflet pairs:

1 = NOT PAIRED

2 = ONE

3 = TWO

4 = THREE OR MORE

## 6. STIPULES:

1 = LACKING 2 = PRESENT

1 = NOT CLASPING

2 = CLASPING

1 = NOT MARBLED 2 = MARBLED

Size (Compared with leaflets):

1 = SMALLER

2 = SAME

3 = LARGER

Color (Compared with leaflets): 1 = LIGHTER 2 = SAME 3 = DARKER

## 7. FLOWER COLOR:

VENATION

STANDARD

WING

KEEL

1 = WHITE

2 = GREENISH

3 = LAVENDER

4 = PURPLE 5 = RED

6 = OTHER (Specify)



April 30, 2000 HK Love.

## 8. PODS:

☒ 2 Shape: 1 = STRAIGHT 2 = SLIGHTLY CURVED 3 = CURVED End: 1 = POINTED (Alderman) 2 = BLUNT (Alaska)  
☒ 2 Color: 1 = LIGHT GREEN (Alaska WR) 2 = MEDIUM GREEN 3 = DARK GREEN (Alderman)  
 4 = OTHER (Specify) \_\_\_\_\_

☒ 2 Surface: 1 = SMOOTH 2 = ROUGH ☒ 2 Surface: 1 = SHINY 2 = DULL  
☒ 2 Borne: 1 = SINGLE 2 = DOUBLE 3 = SINGLE AND DOUBLE 4 = SINGLE, DOUBLE, & TRIPEE  
 5 = DOUBLE & TRIPLE 6 = TRIPLE 7 = OTHER (Specify) \_\_\_\_\_

☒ 0.8 CM. LENGTH ☒ 1.7 MM. WIDTH (Between sutures) ☒ 09 NO. SEEDS PER POD

## 9. SEEDS (95-100 Tenderometer):

☒ 2 Color: 1 = LIGHT GREEN 2 = GREEN 3 = DARK GREEN 4 = OTHER (Specify) \_\_\_\_\_  
 Sieve: % ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 AVERAGE ☐ ☐ ☐

## SEEDS (Dry, Mature):

☒ 4 Shape: 1 = FLATTENED 2 = ANGULAR 3 = OVAL 4 = ROUNDED  
☒ 1 Surface: 1 = SMOOTH 2 = DIMPLED 3 = WRINKLED ☒ 1 Surface: 1 = SHINY 2 = DULL  
☒ 1 Color Pattern: 1 = MONOCOLOR 2 = MOTTLED 3 = STRIPED 4 = DOTTED  
☒ 4 Primary Color: 1 = CREAMY-WHITE 2 = CREAM & GREEN 3 = LIGHT GREEN 4 = MEDIUM GREEN  
 5 = DARK GREEN 6 = BLUE-GREEN 7 = YELLOW 8 = BROWN 9 = RED  
☐ Secondary Color: 10 = GRAY 11 = BLACK  
☒ 1 Hilum Floor Color: 1 = WHITE 2 = TAN 3 = BLACK ☒ 1 Cotyledon Color: 1 = GREEN 2 = YELLOW 3 = ORANGE

☒ 2.5 GRAMS PER 100 SEEDS

## 10. DISEASE: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

☒ 0 FUSARIUM WILT ☒ 0 NEAR-WILT ☒ 0 DOWNY MILDEW  
☒ 1 ASCOCHYTA BLIGHT ☒ 1 POWDERY MILDEW ☒ 0 BACTERIAL BLIGHT  
☒ 0 MOSAIC ☒ 0 PEA ENATION MOSAIC ☒ 0 YELLOW BEAN MOSAIC  
☐ OTHER (Specify) \_\_\_\_\_

## 11. INSECT: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

☒ 0 APHIDS ☐ OTHER (Specify) \_\_\_\_\_

## 12. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Leafiness		Fresh Seed Color	
Leaf Color		Mature Seed Color	
Pod Color		Seed Shape	
Pod Shape		Plant Habit	

COMMENTS:



# APPENDIX

## OBJECTIVE DESCRIPTION OF VARIETY

### PEA (*Pisum sativum*)

Variety Name or Temporary Designation:

'Majoret'

LEAFLET CHARACTERISTICS:

☒ Leaflet Type: 1=Leafless 2=Semi 3=Normal

STIPULE CHARACTERISTICS:

☐ Color:  
1=Light-Green 2=Medium-Green 3=Dark-Green 4=Blue-Green 5=Yellow-Green 6=Other \_\_\_\_\_

Please provide example varieties of similar specified color or check varieties and stipule color.

Variety Name	Stipule Color

Variety Name	Stipule Color

Variety Name	Stipule Color

☒ Size: 1=Small 2=Medium 3=Large

Please provide example varieties of similar specified size or check varieties and stipule size.

Variety Name	Stipule Size
Radley	2

Variety Name	Stipule Size

Variety Name	Stipule Size

OTHER CHARACTERISTICS: Describe other characteristics that may aid in identification.

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(4)

04-Aug-94

REVISED

April 30, 2000.

## EXHIBIT D

Pea Objective Description  
 Pisum sativum L. sensu lato  
 F. Applicant name and address

Svalof Weibull AB  
 S-268 81 Svalof, Sweden

## 1.2 DENOMINATION

Proposed Variety Denomination (name)....  
 MAJORET (SV F 35121)

## 1.3 TYPE

2. Field  
Reference varieties

R1  
 RADLEY

R2

MAJORET

RADLEY

## 2.0 SEED CHARACTERISTICS

2.1 Shape of starch grain	1 simple	1 simple
2.2 :color of cotyledon	1 green	1 green
2.5 :black color of hilum	1 absent	1 absent
2.6 :shape 1-6 irregular	1 spherical	1 spherical
2.7 :wrinkling of cotyledon 1-9 present	1 absent	1 absent
2.8 :size 3 small, 5 medium, 7 large	6 medium-large	3 small

## 3.0 PLANT CHARACTERISTICS

3.1 :stem fasciation 1 absent, 9 present	1 absent	1 absent
3.2 :color 1 yg, 2 lg, 3 blue or dk green	2 light green	2 light green

## 4.0 STEM CHARACTERISTICS

4.1 :vine length 3 short, 5 med., 7 long	5 medium	4 short-medium
4.2 :node # 1 few, 5 many	4	4

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 April 2000.



(5)

## MAJORET

## RADLEY

## 5.0 LEAF CHARACTERISTICS

- 5.1 :presence of leaflets 1 abs, 9 present  
 5.2 : # leaflets max. 1 four, 2 six, 3 eight  
 5.3 :size 3 small, 7 large  
 5.5 :waxiness 1 absent, 9 present

- 1 absent  
 N/A  
 N/A  
 9 present

- 1 absent  
 9 present

## 6.0 STIPULE CHARACTERISTICS

- 6.1 :development 1 rudimentary, 2 normal  
 6.2 :length 3 short, 5 medium, 7 long  
 6.3 :max. width 3 narrow, 5 med, 7 broad  
 6.5 :flecking 1 absent, 9 present  
 6.6 :max. density of flecking 3 sparse, 5 med., 7 dense

- 2 normal  
 5 medium  
 5 medium  
 9 present  
 3 sparse

- 2 normal  
 6 medium-long  
 6 medium-broad  
 9 present  
 4 medium-sparse

## 7.0 FLOWERING

- 7.1 time of flowering 3 early, 5 medium, 7 late  
 7.3 Max. # flrs/node 1 one, 2 one-two, 3 two, 4 two-three  
 5 three, 6 three-four, 7 > four  
 7.5 :color of standard 1 cream, 3 white  
 7.6 :width of standard 3 narrow, 7 broad

- 5 medium  
 2 one-two  
 3 white

- 5 medium  
 2 one-two  
 3 white

## 8.0 POD CHARACTERISTICS

- 8.1 :length 3 short, 5 medium, 7 long  
 8.2 :max. width 3 narrow, 5 medium, 7 broad  
 8.3 :parchment 1 absent/par.abs., 9 entirely present  
 8.5 :curvature 1 absent, 9 present  
 8.6 :degree of curvature 3 weak, 5 med., 7 strong  
 8.7 :type of curvature 1 concave, 2 convex  
 8.8 :shape of distal part 1 pointed, 2 blunt  
 8.9 :color 1 yellow, 2 lgt green, 3 dk green, 4 purple  
 8.13 number of ovules/seeds 3 few, 5 med., 7 many  
 8.14 :color of immature seed 1 pale green, 2 dk green

- 6 medium-long  
 5 medium  
 9 ent.present  
 9 present  
 5 medium  
 1 concave  
 1 ~~POINTED~~  
 2 ~~blunt~~  
 2 light green  
 7 many  
 1 pale green

- 6 medium-long  
 4 medium-narrow  
 9 ent.present  
 9 present  
 6 medium-strong  
 1 concave  
 2 blunt  
 2 light green  
 7 many  
 1 pale green

## 9.0 TIME OF MATURITY 3 early, 5 med., 7 late

- 5 medium

- 5 medium



	MAJORET	RADLEY
10.0 REACTION TO DISEASES 1 resis, 2 tolerant, 3 suscep.		
10.2 Mycosphaerella blight*	3 susceptible	3 susceptible
10.5 Powdery mildew*	3 susceptible	3 susceptible
11.0 COOKING QUALITY*		
	color(1-5 poor) 2.9	3.0
	granulation(1-5 poor) 2.5	2.9
	viscosity (1 high-24 low) 19.7	24.0
12.0 PROTEIN CONTENT (%)*	24.9	25.8
14.0 Kind & % deviates		
a) acceptable variants	None	
b) acceptable off-types	None	
15.0 Distinguishing key #		

\* Western Canada Field Pea Co-Op Data (attached)

April 30/2000  
[Signature]

Table 1. Agronomic Performance and Quality Data of SVF 35121 (Majoret) and Check Varieties, Dryland Station Data Canadian Co-Operative Field Pea Tests +

Yield (Kg/ha) Index		1000 Seed Wt (g)	Vine Length (cm)	Days to Mature	Cooking Quality*			Protein** (%)	Seed***	Pre-Harvest
					Colour	Granulation	Viscosity		Coat Breakage (%)	Lodging****
Three-Year Averages (1991-93)										
No. of Station Years	(25)	(23)	(22)	(22)	(15)	(15)	(15)	(9)	(13)	(7)
Express	4688 112	220	75	101	3.2	3.2	21.6	24.8	12.5	5.4
Radley	4204 100	187	80	99	3.0	3.0	24.0	25.8	6.3	5.2
SVF 35121 (Majoret)	4246 101	254	82	99	--	--	--	24.9	9.9	3.3
Two-Year Averages (1991-92)										
No. of station years	(15)	(13)	(14)	(13)	(11)	(11)	(11)	(6)		
AC Tamor	3676 87	273	69	97	3.0	2.4	15.9	25.8		
Express	4018 96	227	72	96	3.1	3.2	21.8	24.3		
Radley	3547 84	189	78	96	3.0	2.9	24.0	25.8		
Trump	3621 86	251	67	96	3.1	2.8	23.2	25.7		
SVF 35121 (Majoret)	3550 84	254	81	94	2.9	2.5	19.7	24.8		

\* Colour of puree and granulation of pulp were subjectively evaluated on a scale of 1-5 where 1 = very good and 5 = poor.  
Viscosity of puree was rated on a scale of 1-24 where 1 = high and 24 = low.

\*\* Protein content = N \* 6.25

\*\*\* Arcsin transformation of the mean % of seeds with seed coat breakage

\*\*\*\* 1 = upright; 9 = flat

+ Locations: Morden, Portage, Melfort, Saskatoon, Ft. Vermillion, Vegreville, Sutherland, Hagen, Indian Head,  
Scott, Irricana, Dawson Creek, Morinville



Table 13. Reaction of the Field Pea Zone 2 (Long-season) Co-operative Test to *Mycosphaerella*/*Ascochyta* blight in 1993 and supportive data from 1991-1992 Co-op tests.

Entry	1993		1992	1991	2-, 3-Year
	Morden	Indian Head	Morden	Morden	Mean
<u>Checks</u>					
EXPRESS	7.5 bc	2.8 bcd	7.6	5.1	5.8
RADLEY	8.2 abc	1.7 cd	6.8	4.6	5.3
TARA	8.2 abc	5.6 a			6.9
<u>3-Year Entry</u>					
CB419	9.0 a	2.8 bcd	8.4	8.7	7.2
SVC40143	7.1 c	3.4 bc	7.3		5.9
SVF35121	7.5 bc	2.3 bcd	7.0		5.6
<u>2-Year Entry</u>					
4-9060	8.2 abc	2.8 bcd	7.6		6.2
4-9088	9.0 a	1.7 cd	7.6		6.1
SVC07323	7.5 bc	2.8 bcd	7.6		6.0
SVD32140	7.5 bc	2.8 bcd	8.8		6.4
<u>1-Year Entry</u>					
4-9076	7.9 abc	2.3 bcd			5.1
4-9209	8.2 abc	1.0 d			4.6
4-9215	7.5 bc	2.8 bcd			5.2
4-9226	8.7 ab	2.3 bcd			5.5
4-9238	7.9 abc	2.3 bcd			5.1
4-9247	8.2 abc	2.8 bcd			5.5
HJA53750	8.2 abc	2.8 bcd			5.5
MP1045	8.2 abc	3.9 ab			6.1
MP1061	8.7 ab	5.6 a			7.2
S2-90-25	7.9 abc	2.8 bcd			5.4
S2-90-31	7.5 bc	2.3 bcd			4.9
C.V.	7.1	27.9			
LSD (.05%)	0.8	1.5			

Data from Morden and Indian head in 1993, from Morden and Portage la Prairie in 1992, and from Morden in 1991. Disease ratings are based on a 1-9 scale: 1=no infection, 2=1%, 3=5%, 4=10%, 5=25%, 6=50%, 7=75%, 8= 90%, and 9=100% infection.

Numerals within a column followed by the same letter are not significantly different (Duncan's Multiple Range Test).

Table 14. Reaction of the Field Pea Zone 2 (Long-season) Co-operative Test to powdery mildew in 1993 and supportive data from 1991-1992 Co-op tests.

Entry	1993 Indian Head	1992 Mean	1991 Mean	2-, 3-Year Mean
<u>Checks</u>				
EXPRESS	6.8 abc	7.7 ab	8.0	7.5
RADLEY	8.4 a	8.3 a	8.4	8.4
TARA	1.0 d	NA	NA	1.0
<u>3-Year Entry</u>				
CB419	7.9 a	7.8 ab	8.4	8.0
SVC40143	6.2 abc	7.9 ab	NA	7.1
SVF35121	6.2 abc	8.2 a	NA	7.2
<u>2-Year entry</u>				
4-9060	7.9 a	6.8 abcd		7.4
4-9088	6.2 abc	6.0 def		6.1
SVC07323	4.5 bc	6.8 abcd		5.7
SVD32140	7.3 ab	NA		7.3
<u>1-Year Entry</u>				
4-9076	6.2 abc			
4-9209	6.2 abc			
4-9215	7.3 ab			
4-9226	7.9 a			
4-9238	6.2 abc			
4-9247	3.9 cd			
HJA53750	7.9 a			
MP1045	1.0 d			
MP1061	1.0 d			
S2-90-25	6.8 abc			
S2-90-31	6.2 abc			
C.V.	23.1			
LSD (.05%)	2.5			

Data from Indian Head in 1993; from Morden, Portage la Prairie, and Melfort in 1992 and in 1991. Disease ratings are based on a 1-9 scale: 1=no infection, 2=1%, 3=5%, 4=10%, 5=25%, 6=50%, 7=75%, 8=90%, and 9=100% infection.

Numerals within a column followed by the same letter are not significantly different (Duncan's Multiple Range Test).



U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

**EXHIBIT E**  
**STATEMENT OF THE BASIS OF OWNERSHIP**

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S)  Svalof Weibull AB	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME  MAJORET
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)  S-268 81 Svalov, SWEDEN	5. TELEPHONE (include area code)  705-324-3293	6. FAX (include area code)  705-324-2550
7. PVPO NUMBER  9600234		

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain.

☒ YES ☐ NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company?  
If no, give name of country SWEDEN

☐ YES ☒ NO

10. Is the applicant the original breeder? If no, please answer the following:

☒ YES ☐ NO

a. If original rights to variety were owned by individual(s):

Is (are) the original breeder(s) a U.S. national(s)? If no, give name of country \_\_\_\_\_

b. If original rights to variety were owned by a company:

Is the original breeder(s) U.S. based company? If no, give name of country SWEDEN

☐ YES ☒ NO

11. Additional explanation on ownership (If needed, use reverse for extra space):

Svalof Weibull AB is the breeder and owner of the Pisum sativum Field Pea variety MAJORET tested as experimental designation SV F 35121.

**PLEASE NOTE:**

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

The original breeder may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

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